

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

System and Method for Antenna Diversity Using Joint **Maximal Ratio Combining**

Application Number:

10/695229

Confirmation Number:

4971

First Named Applicant:

Gary Sugar

Attorney Docket Number: Cognio18US2

Art Unit:

2682 .

Search string:

(6177906 or 6369758 or 6037898 or 5982327

or 5274844 or 20030002450 or 20030139194 or 20030125090 or 20030108117 or 20030032423

or 20020196842).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
RP	1	6177906	2001-01-01	Petrus, Paul]	342	378
RI	2	6369758	2002-04-01	Zhang, Deming]	342	383
21	3	6037898	2000-03-01	Parish et al]	342	174
RA	4	5982327	1999-11-01	Vook et al]	342	380
RY	5	5274844	1993-12-01	Harrison et al]	455	25

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
RV	1	20030002450	2003-01-01	Jalali et al		370	294
RD	2	20030139194	2003-07-01	Onggosanusi et al]	455	506
RP	3	20030125090	2003-07-01	Zeira, Ariela]	455	562
RI	4	20030108117	2003-06-01	Ketchum et al]	375	295
RY	` 5	20030032423	2003-02-01	Boros et al]	455	423
Ry	6	20020196842	2002-12-01	Onggosanusi et al]	375	148

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(5437055 or 5507035 or 4599734 or 5491723 or 5394435 or 4639914 or 6157340 or 6124824 or 6122260 or 6195045 or 6147985 or 6044120 or 6038272 or 6349219 or 6327310 or 6307882 or 6058105 or 6442214 or 6144711 or 6317466 or 6097771 or 6377631 or 6298092 or 6377636 or 6351499 or 6400699 or 5610617 or 6252548 or 5577265 or 6211671 or 6008760 or 6370182 or 6362781 or 6377819 or 6400780 or 6331837 or 6473467 or 6636568 or 20020064246 or 20020001316 or 20020136170 or 20020141355

or 20020172269 or 20020064246 or

20020001316 or 20020072392 or 20020122501

or 20020158801 or 20020159537 or

20020039884 or 20020067309 or 20020127978

or 20020085643 or 20020118781 or

20020122383 or 20020111142 or 20020102950

or 20010046255 or 20020024975 or

20010012764 or 20010053143 or 20010015994

or 20020034191).pn.

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Rp	1	5437055·	1995-07-25	Wheatley, III		455	33.3
f /	2.	5507035	1996-04-09	Bantz et al.]	455	133
Rp	3	4599734	1986-07-08	Yamamoto		375	40
E1	4	5491723	1996-02-13	Diepstraten]	375	267
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RV	5	5394435	1995-02-18	Weerackody		375	206
21	6	4639914	1987-01-27	Winters]	370	110.1
RP	7	6157340	2000-12-05	Xu et al]	342	174
PI	8	6124824	2000-09-26	Xu et al] .	342	174
EV	9	6122260	2000-09-19	Liu et al]	370	280
np	10	6195045	2001-02-27	Xu et al	B1	342	368
4	11	6147985	2000-11-14	Bar-David et al] .	1	ſ
RP.	12	6044120	2000-03-28	Bar-David et al]		·
10	13	6038272	2000-03-14	Golden]	-	5.
KP.	14	6349219	2002-02-19	Hochwald et al]	-	
FP	15	6327310	2001-12-04	Hochwald et al]		
RP	16	6307882	2001-10-23	Marzetta]		
lp	17	6058105	2000-05-02	Hochwald et al]		". \
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Rp	20	6317466	2001-11-13	Foschini et al			
KP	21	6097771	2000-08-01	Foschini]	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Vr	22	6377631	2002-04-23	Raleigh] :		
KP	23	6298092	2001-10-02	Heath Jr.]		
ET.	24	6377636	2002-04-23	Paulraj et al]	:	-
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20	26	6400699	2002-06-04	Airy et al]	- 1	. "
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KI	28	6252548	2001-06-26	· Jeon		1	
KP	29	5577265	1996-11-19	Wheatley, III			- 1
RP	30	6211671	2001-04-03	Shattil]		
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RP	32	6370182	2002-04-09	Bierly et al]		- 1
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X /	35	6400780	2002-06-04	Rashid-Farrokhi et al]	1	1
KP	36	6331837	2001-12-18	Shattil]	\underline{l}	1
RY	37	6473467	2002-10-01	Wallace et al]	375	267
RP	38	6636568	2003-10-01	Kadous, Tarner]	375	225
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XV	2	20020001316	2002-01-03	Hornsby et al	A1	370	487 ·
RY	3	20020136170	2002-09-26	Struhsaker	A1	370	280
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Pρ	10	20020158801	2002-10-31	Crilly, Jr. et al			
KP	11	20020159537	2002-10-31	Crilly, Jr.			
RP	12	20020039884	2002-04-04	Raynes et al			
H	13	20020067309	2002-06-06	Baker et al			
RP	14	20020127978	2002-09-12	Khatri			
KP	15	20020085643	2002-07-04	Kitchener et al			1 1
LP	16	20020118781	2002-08-29	Thomas et al	,	1	
KY	17	20020122383	2002-09-05	Wu et al		1	
KV	18	20020111142	2002-08-15	Klimovitch			
121	19	20020102950	2002-08-01	Gore et al			
RP	20	20010046255	2001-11-29	Shattil			
KP.	21	20020024975	2002-02-28	. Hendler		<u> </u> -	, ·
KP	22	20010012764	2001-08-09	Edwards et al			1.
RP	23	20010053143	2001-12-20	Li et al			- 1
RL	24	20010015994	2001-08-23	Nam			1
Rr	25	20020034191	2002-03-21	Shattil			\

Signature

Examiner Name	Date
Ray Pin	8/21/04



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(6687492).pn.

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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
RP	1	6687492	2004-02-03	Sugar et al.	B1	455	276.1

Signature

Examiner Name	Date
Lan Kern	8/21/2004



APPLICANT(S):

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101 ORCHARD RIDGE DRIVE, SUITE 350 GAITHERSBURG, MARYLAND 20878

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: Cognio18US2 SERIAL NO.:

10/695,229

GROUP ART UNIT: 2682

Sugar et al.

FILING DATE: December 28, 2003 TODAY'S DATE: March 11, 2004

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RP AB	WO 01/45300	6/21/2002	PCT		

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KI BB	Iserte, Antonio Pascual et al., "Joint Beamforming Strategies in OFDM-MIMO Systems," ICASSP 2002 (IEEE International Conference on Acoustics, Speech and Signal Processing), May, 2002.
L/ BC	Lee, Dennis et al., "Antenna Diversity for an OFDM System in a Fading Channel," Proceeding of IEEE MILCOM 1999, November, 1999, pages 1104-1109.
R/ BD	Jakes, William C., "Microwave Mobile Communications," Copyright 1974, pages 313-320 and 489-498.
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L/ BF	Morgan, Samuel P., "Interaction of Adaptive Antenna Arrays in an Arbitrary Environment," The Bell System Technical Journal, January, 1965, pages 23-47.
KV BG	Aziz, Abdul M.K. et al., "Indoor Throughput and Range Improvements using Standard Compliant AP Antenna Diversity in IEEE 802.11a and ETSI HIPERLAN/2," Vehicular Technology Conference, 2002, VTC 2001, October 7-11, 2001, IEEE VTS 54 th , Volume 4, pages 2294-2298.
Д√ вн	Iserte, Antonio Pascual et al., "Iterative Algorithm for the Estimation of Distributed Sources Localization Parameters," SSP 2001 (11th IEEE Workshop on Statistical Signal Processing), August, 2001.
LV BI	Vaidyanathan et al., "The Role of Lossless Systems in Modern Digital Signal Processing: A Tutorial," IEEE Transactions on Education, Vol. 32, August 1989, pp. 181-197.
L/ BJ	Raleigh et al., "Spatio-Temporal Coding for Wireless Communication," IEEE Transactions on Communications, Vol 46., No. 3, March 1998, pp. 357-366.
L√ BK	Jungnickel et al., "Performance of a MIMO System with Overlay Pilots," IEEE GlobeCom 2001, pp. 594-598.
L∫ BL	BLAST High-Level Overview, Lucent Technologies, July 18, 2000

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EXAMINER	Lan	Ju-	DATE CONSIDERED	8/21	104	
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^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s)